**What do mean and standard deviation measure?**

**Mean:** Use the mean formula when you want to calculate the average of a set of values (data points).

**Standard Deviation**: Use standard deviation formula to determine the amount by which your values (data points) typically differ from the mean value. In other words, the standard deviation determines the amount of variation in your data.

**Sample Data and Calculations:**

The following onion root lengths were recorded in centimeters.

5.4 7.2 4.9 9.3 7.2

1) Calculate the average (mean) root length. You’re your answer in cm to the nearest tenth.



2) Calculate the standard deviation of the data set given above. Give your answer in cm to the nearest tenth.

